

**216.5.01 Adjustments**

General Provisions 101 through 150.

## **Section 217—Removal of Underground Storage Tanks**

**217.1 General Description**

This work includes excavating, removing, and disposing of underground storage tank (UST) systems discovered during construction or shown on the Plans.

Remove materials according to this Specification, Plan details, and as directed by the Engineer.

**217.1.01 Definitions**

Underground storage tank system: A tank with at least 10 percent of its volume underground, including the pipes and pumps connected to the tank. The tanks may be used to store petroleum products or hazardous chemicals. Tanks used for the following are specifically excluded from Georgia EPD Rules (Chapter 391-3-15) and EPA regulation 40 CFR Part 280:

- Farm or residential tanks of 1100 gal (4160 L) or less capacity used for storing motor fuel for noncommercial uses
- Tanks used for storing heating oil for consumptive use of the premises where stored
- Pipeline facilities

Remove tanks excluded from Georgia EPD Rules (Chapter 391-3-15) and EPA regulation 40 CFR Part 280 according to the American Petroleum Institute's Recommended Practice 1604 (API 1604).

**217.1.02 Related References****A. Standard Specifications**

Section 107—Legal Regulations and Responsibility to the Public

Section 109—Measurement and Payment

Section 208—Embankments

**B. Referenced Documents**

Georgia EPD Rules (Chapter 391-3-15)

EPA regulation 40 CFR Part 280

American Petroleum Institute's Recommended Practice 1604 (API 1604)

**217.1.03 Submittals****A. UST Systems Shown on the Plans**

Submit documentation of proper disposal to the Engineer no later than the day following disposal.

Submit the soil or water samples to a laboratory approved by the Engineer for testing.

Submit to the Engineer a completed test report, sketch, and certification that the tests were performed according to EPD rules. Submit the documentation within 30 days after the date the samples were taken.

**217.2 Materials****A. Soil Backfill**

To backfill a UST removal site, use earth materials approved by the Engineer.

**B. Hazardous Materials**

Handle materials classified as hazardous according to Subsection 107.22, "Hazardous and/or Toxic Waste."

**217.2.01 Delivery, Storage, and Handling**

General Provisions 101 through 150.

## 217.3 Construction Requirements

### 217.3.01 Personnel

General Provisions 101 through 150.

### 217.3.02 Equipment

General Provisions 101 through 150.

### 217.3.03 Preparation

Two weeks before working on UST systems shown in the Plans, notify the Engineer in writing. The Engineer will inspect the work with the Office of Materials and Research and the District's UST Tank Pull Inspector.

When the Engineer grants approval to proceed and the UST Tank Pull Inspector is present onsite to monitor the UST removal, proceed with the work according to the requirements outlined in Subsection 217.3.05.A, "Applicable Specifications".

### 217.3.04 Fabrication

General Provisions 101 through 150.

### 217.3.05 Construction

#### A. Applicable Specifications

Remove and dispose of UST systems according to the American Petroleum Institute's Recommended Practice 1604 (API 1604), Georgia EPD Rules (Chapter 391-3-15), and EPA regulation 40 CFR Part 280.

In addition to these requirements, strictly comply with Federal, State, or local codes or ordinances pertaining to removing UST systems.

Verify the accuracy and existence of applicable codes, ordinances, and other regulations by obtaining and interpreting state, county, city, or local municipality by-laws for solid waste disposal.

#### B. UST Categories

For this Specification, UST systems are categorized as those shown on the Plans or discovered during construction.

##### 1. UST Systems Shown on the Plans

- a. Consider UST systems shown on the Plans as a normal part of the Contract.
- b. Assume liability for improperly removing and disposing of UST systems. Prevent spilling the contents of the tank and carefully handle and transport the tank to the permitted disposal area.  
Immediately contain any spills and remove and dispose of the contaminated soil at no cost to the Department.  
If the Engineer determines that the Contractor is negligent in containing and remediating spills, the Department will hire outside forces to perform the work and deduct the cost from the Contractor's payments.
- c. Dispose of the tank, contents, and contaminated soils according to EPD rules.
- d. After removing the tank and its contents, take soil samples as specified in the EPD rules and sketch the location and depth from which the samples were taken.
- e. If soils in the tank pit are visually contaminated, remove the soils through additional excavation (over-excavation).  
Over-excavate to the limits of contamination or a maximum of 4 ft. (1.2 m) deep, whichever occurs first. After completing over-excavation, take soil samples as specified above.  
If water is present in the pit after removing tank or over-excavating, take a water sample.
- f. Submit the soil and/or water samples to a laboratory approved by the Engineer for testing. Give the Engineer a complete test report and certification that the tests were performed according to EPD rules.
- g. Place and compact backfill material for tank pit areas within the construction limits according to Section 208.  
Tank pit areas on the right-of-way outside the construction limits will not require any special placement procedure or compaction testing. Leave the area level, smooth, and dressed to the satisfaction of the Engineer.

##### 2. UST Systems Discovered During Construction

If a UST system is discovered during construction, notify the Engineer immediately.

- a. Stop work in the vicinity of the UST until arrangements for removal and disposal have been made.

- b. Upon the Engineer's approval to proceed, perform the work according to Subsection 217.3.05.A and Subsection 217.3.05.B.1.b.

### **217.3.06 Quality Acceptance**

General Provisions 101 through 150.

### **217.3.07 Contractor Warranty and Maintenance**

General Provisions 101 through 150.

## **217.4 Measurement**

The work performed under this Item is measured as follows:

### **A. UST Shown on Plans**

UST systems shown on the Plans are measured on a per each basis.

### **B. UST Discovered during Construction**

Work for UST systems discovered during construction is measured according to Subsection 109.05.

### **C. Over-excavation of Contaminated Soil**

Over-excavation of contaminated soil for UST systems shown on the Plans is measured by the cubic yard (meter).

The volume of material measured for payment is the difference in the tank pit volume based on neat line plan dimensions minus the volume of the completed excavation area as determined from cross sections, using the average end area method.

Excavation outside Plan dimensions or dimensions established by the Engineer will not be measured for payment. Disposal of contaminated soil is not measured separately.

### **217.4.01 Limits**

General Provisions 101 through 150.

## **217.5 Payment**

Work performed under this Item will be paid as follows:

### **A. UST Shown on Plans**

UST systems shown on the Plans and removed under this Item will be paid for at the Contract Unit Price per each.

Payment is full compensation for excavating, testing, hauling, and handling according to Georgia Environmental Protection Division Rules, as well as backfilling, compacting, fencing, and removing and disposing of contaminated soil, tank, tank contents, and all other incidentals necessary to complete the work.

### **B. UST Discovered During Construction**

Removing UST systems discovered during construction will be paid for according to Subsection 109.05.

### **C. Over-excavation of Contaminated Soil**

Over-excavating contaminated soil will be paid for at the Contract Unit Price per cubic yard (meter). Payment is full compensation for removing, hauling, properly disposing, backfilling, and compacting.

Payment will be made under:

Item No. 217	Removal of underground storage tank, station No. _____	Per each
Item No. 217	Over-excavation of contaminated soil	Per cubic yard (meter)

### **217.5.01 Adjustment**

General Provisions 101 through 150.